

# **NOTIFICATION OF ADDENDUM**

## **ADDENDUM NO. 1**

**DATED 1/04/2005**

<b>Control</b>	<b>2267-01-007</b>
<b>Project</b>	<b>C 2267-1-7</b>
<b>Highway</b>	<b>PR 40</b>
<b>County</b>	<b>WALKER</b>

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum by entering the date, which appears at the top of this letter on the Addendum Acknowledgement Form, contained in your bid proposal.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: C 2267-1-7

CONTROL: 2267-01-007

COUNTY: WALKER

LETTING: 01/12/2005

REFERENCE NO: 1231

**PROPOSAL ADDENDUMS**

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PROPOSAL COVER

X BID INSERTS (SH. NO.: 10-10 )

X GENERAL NOTES (SH. NO.: H THRU N )

X SPEC LIST (SH. NO.: 4-4 )

SPECIAL PROVISIONS:

ADDED:

DELETED:

X SPECIAL SPECIFICATIONS:

ADDED: 6670

DELETED:

X OTHER: SEE CHANGES BELOW.

DESCRIPTION OF ABOVE CHANGES  
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: SHEET 10-10 - ADDED ITEM 6670-0501

GENERAL NOTES: SHEETS H THRU N

SHEET H - ADDED NOTE FOR ITEM 247

SHEETS I THRU N REVISED DUE TO SHIFTING

SPEC LIST: SHEET 4-4 REVISED DUE TO ADDITION OF SPECIAL SPEC. ITEM 6670

PLAN SHEETS 14C THRU 14F AND 15A REVISED DUE TO ABOVE CHANGES.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	0501		PREP ROW  DOLLARS and CENTS	AC	53.200	1
	105	0547		RM STB BS AND/OR ASPH PAV (CL2)(0"-2")  DOLLARS and CENTS	SY	524.400	2
	106	0501		OBLITERATE ABND ROAD  DOLLARS and CENTS	STA	12.900	3
	110	0501	004	EXCAVATION (RDWY)  DOLLARS and CENTS	CY	15,712.000	4
	112	0501		SUBGRADE WIDENING (ORD COMP)  DOLLARS and CENTS	STA	254.400	5
	132	0518		EMBANK (ORD COMP)(TY B)(CL 3)  DOLLARS and CENTS	CY	22,960.000	6
	132	0521		EMBANK (ORD COMP)(TY C)(CL 3)  DOLLARS and CENTS	CY	16,409.000	7
	150	0503		BLADING  DOLLARS and CENTS	HR	20.000	8
	160	0506		FURN AND PLAC TPSL (CL 2)(4 ")  DOLLARS and CENTS	SY	144,354.000	9
	164	0561	006	HAY OR STRAW SEED (PERM)(RURAL)(CLAY)  DOLLARS and CENTS	SY	152,124.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	168	0501		VEGETATIVE WATERING  DOLLARS and CENTS	MG	1,522.000	11
	169	0504	002	SOIL RET BLNKT (CL 1)(TY D)  DOLLARS and CENTS	SY	100.000	12
	247	0880	017	FL BS (COMPL IN PLAC)(TYD GR2 CL5)(12")  DOLLARS and CENTS	SY	980.000	13
	247	0905	017	FL BS (COMPL IN PLAC)(TYD GR2 CL5)9.5"  DOLLARS and CENTS	SY	3,358.000	14
	251	0754		REWORKING BS MATL(OC)(TY B CL 2)(5")  DOLLARS and CENTS	SY	115,549.000	15
	251	0861		REWRKING BS MATL (OC)(TY B CL 2)(2")  DOLLARS and CENTS	SY	11,261.000	16
	260	0508	001	LIME TREAT SUBGR (DC)(10")  DOLLARS and CENTS	SY	9,503.000	17
	260	0509	001	LIME (TY A OR C)  DOLLARS and CENTS	TON	357.000	18
	275	0505		CEMENT  DOLLARS and CENTS	TON	2,210.000	19
	275	0534		CEM TRT (EXIST MATL)(STR-O)(10")(DC)  DOLLARS and CENTS	SY	157,090.000	20
	316	0506	004	AGGR (TY B, GR3)  DOLLARS and CENTS	CY	1,630.000	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	316	0521	004	AGGR (TY B GR5)  DOLLARS CENTS and	CY	1,253.000	22
	316	0539	004	ASPH (RC 250)  DOLLARS CENTS and	GAL	35,835.000	23
	316	0758	004	ASPH (HFRS-2P OR CRS-1P)  DOLLARS CENTS and	GAL	68,445.000	24
	316	0862	004	ASPH (AC-20-5TR)  DOLLARS CENTS and	GAL	16,256.000	25
	400	0507	016	CEM STABIL BKFL  DOLLARS CENTS and	CY	12.000	26
	403	0515		TEMPORARY SPL SHORING (COFFERDAM) DOLLARS CENTS and	SF	6,690.000	27
	420	0503	015	CL A CONC (MISC)  DOLLARS CENTS and	CY	597.600	28
	420	0516	015	CL E CONC (SEAL)  DOLLARS CENTS and	CY	61.000	29
	420	0599	015	CL K CONC (MISC)  DOLLARS CENTS and	CY	7.000	30
	432	0501		RIPRAP (CONC)(CL B)  DOLLARS CENTS and	CY	10.000	31
	432	0507		RIPRAP (STONE)(COMMON)(DRY) DOLLARS CENTS and	CY	268.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	450	0511		RAIL (TY T6)  DOLLARS and CENTS	LF	300.000	33
	450	0537		RAIL (CURB RAMP HANDRAIL)  DOLLARS and CENTS	LF	383.000	34
	462	0517	007	CONC BOX CULV (7 FT X 3 FT)  DOLLARS and CENTS	LF	276.800	35
	464	0505	003	RC PIPE (CL III)(24 ")  DOLLARS and CENTS	LF	64.000	36
	464	0519	003	RC PIPE (CL IV)(18 IN)  DOLLARS and CENTS	LF	124.000	37
	466	3576	007	HEADWALL (CH-PW-0)(DIA= 24 IN)  DOLLARS and CENTS	EA	2.000	38
	466	3715	007	WINGWALL (PW-30)(HW=6 FT)  DOLLARS and CENTS	EA	2.000	39
	467	3826	009	SET (TY II)(18IN)(RCP)(4:1)(P)  DOLLARS and CENTS	EA	1.000	40
	479	0504		ADJ MANH (WATER VALVE BOX)  DOLLARS and CENTS	EA	1.000	41
	479	0522		ADJ MANH (SAN SEWER)  DOLLARS and CENTS	EA	3.000	42
	479	0527		ADJ MANH (SAN SEWER CLEANOUT)  DOLLARS and CENTS	EA	2.000	43

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	496	0503		REMOV OLD STR (PIPE)  DOLLARS CENTS and	EA	30.000	44
	496	0517		REMOV OLD STR (SMALL)(INLET)  DOLLARS CENTS and	EA	5.000	45
	496	0535		REMOV OLD STR SMALL (HDWL)  DOLLARS CENTS and	EA	5.000	46
	500	0501		MOBILIZATION  DOLLARS CENTS and	LS	1.000	47
	502	0501	027	BARRICADES, SIGNS AND TRAF HANDLE  DOLLARS CENTS and	MO	12.000	48
	508	0503		CONSTRUCT DETOURS (CL 3)  DOLLARS CENTS and	SY	763.000	49
	529	0501		CONC CURB (TY 1)  DOLLARS CENTS and	LF	1,576.000	50
	529	0543		CONC CURB (SPECIAL)  DOLLARS CENTS and	LF	1,262.000	51
	531	0548	018	CONCRETE SIDEWALKS (6")  DOLLARS CENTS and	SY	10,085.000	52
	540	0518	033	MTL BM GD FEN (CORR RES)(12GA) TIM POST  DOLLARS CENTS and	LF	301.000	53

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	540	0519	033	TERM ANCHOR SECT (CORR RES)(12 GA) DOLLARS and CENTS	EA	8.000	54
	542	0501		REMOV METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	170.000	55
	542	0503		REMOV TERMINAL-ANCHOR SECTION DOLLARS and CENTS	EA	4.000	56
	550	0566	001	VEHICULAR GATE (DOUBLE)(3' X 12') DOLLARS and CENTS	EA	11.000	57
	618	0521		CONDUIT (PVC)(SCHD 80)(4 ") DOLLARS and CENTS	LF	3,411.000	58
	618	0522		CONDUIT (PVC)(SCHD 80)(6 ") DOLLARS and CENTS	LF	3,897.000	59
	636	0501		ALUM SIGNS (TY A) DOLLARS and CENTS	SF	683.000	60
	644	0608		SM RD SGN ASSM TY TWT(1)UA(P) DOLLARS and CENTS	EA	161.000	61
	644	0610		SM RD SGN ASSM TY TWT(1)UA(T) DOLLARS and CENTS	EA	4.000	62
	649	0504		RELOC SMALL RDSD SGN ASSMS DOLLARS and CENTS	EA	5.000	63
	658	0561		OBJ MRK ASM TY 1 (OM-1R) DOLLARS and CENTS	EA	1.000	64



ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	0572		OBJ MRK ASM TY 2 FLEX (OM-2VP) (7.0') DOLLARS and CENTS	EA	28.000	65
	662	0583	007	WRK ZN PAV MRK SH TRM (TAB) TY Y-2 DOLLARS and CENTS	EA	1,782.000	66
	666	0501	043	REFL PAV MRK TY I (W) (4") (SLD) DOLLARS and CENTS	LF	67,654.000	67
	666	0502	043	REFL PAV MRK TY I (W) (4") (BRK) DOLLARS and CENTS	LF	170.000	68
	666	0512	043	REFL PAV MRK TY I (W) (24") (SLD) DOLLARS and CENTS	LF	1,696.000	69
	666	0513	043	REFL PAV MRK TY I (W) (ARROW) DOLLARS and CENTS	EA	12.000	70
	666	0524	043	REFL PAV MRK TY I (Y) (4") (SLD) DOLLARS and CENTS	LF	51,313.000	71
	666	0532	043	REFL PAV MRK TY I (Y) (24") (SLD) DOLLARS and CENTS	LF	359.000	72
	668	0591		PREFAB PAV MRK (ACC PRK)(BLU & WH) SML DOLLARS and CENTS	EA	73.000	73
	1042	0501		TREE PROTECTION (PROTECTIVE FENCE) DOLLARS and CENTS	EA	2,500.000	74

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	1913	0501		FLOATING DOCK SYSTEM DOLLARS and CENTS	EA	1.000	75
	1914	0501		VEHICULAR ACCESS CONTL GATE AND KEYPD DOLLARS and CENTS	LS	1.000	76
	3146	0564	015	HOT MIX (TY C)(SURF)(PG 64-22) DOLLARS and CENTS	TON	19,753.000	77
	3637	0501		LAPTOP MICROCOMPUTER DOLLARS and CENTS	EA	1.000	78
	3637	0502		PRINTER DOLLARS and CENTS	EA	1.000	79
	3637	0503		INTERNET SERVICE PROVIDER DOLLARS and CENTS	EA	1.000	80
	4438	0502		FLOWABLE BACKFILL (KEY/PLUG)(SPL) DOLLARS and CENTS	CY	100.000	81
	5005	0501		ROCK FILTER DAMS (TY 1) DOLLARS and CENTS	LF	705.000	82
	5005	0502		ROCK FILTER DAMS (REMOV & REPLAC)(TY 1) DOLLARS and CENTS	LF	360.000	83
	5005	0503		ROCK FILTER DAMS (REMOV)(TY 1) DOLLARS and CENTS	LF	705.000	84

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	5010	0501		CONSTRUCT EXIT (TY 1)  DOLLARS and CENTS	SY	140.000	85
	5010	0502		CONSTRUCT EXIT (REMOV & REPLAC)(TY 1)  DOLLARS and CENTS	SY	70.000	86
	5010	0503		CONSTRUCT EXIT (REMOV)(TY 1)  DOLLARS and CENTS	SY	140.000	87
	5012	0503		BLADING WORK (EROSN CONT)(CL 1)  DOLLARS and CENTS	HR	28.000	88
	5012	0507		EXCAV WORK (EROSN CONT)(CL 1)  DOLLARS and CENTS	HR	538.000	89
	5020	0502	001	MODULAR RETAINING WALLS  DOLLARS and CENTS	SY	205.000	90
	5249	0501		TEMP SEDMT CONT FENCE  DOLLARS and CENTS	LF	660.000	91
	5249	0502		TEMP SEDMT CONT FENCE (REMOVE & REPLAC)  DOLLARS and CENTS	LF	330.000	92
	5249	0503		TEMP SEDMT CONT FENCE (REMOV)  DOLLARS and CENTS	LF	660.000	93
	5673	0501		PRECAST CONC WHEEL STOPS (TY I)  DOLLARS and CENTS	EA	866.000	94

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	5866	0501		CURB RAMP AND LANDING (TY 1) DOLLARS and CENTS	EA	2.000	95
	5866	0502		CURB RAMP AND LANDING (TY 2) DOLLARS and CENTS	EA	1.000	96
	5866	0506		CURB RAMP AND LANDING (TY 7) DOLLARS and CENTS	EA	9.000	97
	5977	0501		GEOGRID BASE REINFORCEMENT DOLLARS and CENTS	SY	980.000	98
	6670	0501		PORT CHANGE MES SGN (TYPE I) DOLLARS and CENTS	DAY	730.000	99

County: Walker

Control: 2267-01-007

Highway: PR 40

**GENERAL NOTES:****BASIS OF ESTIMATE**

ITEM	DESCRIPTION	COURSE	RATE	AMOUNT	QUANTITY
150	Blading		1 Hour/Mile	1 Mile @ 20 cycles	20 HRS.
168	Vegetative Watering		10 GAL/ SY	152,124 SY	1,522 MG
275	Cement (3 %)	10" Exst. Matrl. (1)	28.13 LB/SY	157,090 SY	2,210 TON
260	Lime (8%)	10" Subgrade (1)	75 LB/SY	9503 SY	357 TON
316	Asphalt (RC-250)	1 <sup>st</sup> Course Both	0.22 GAL/ SY	162,885 SY	35,835 GAL
316	Aggregate (TY B GR 5)	1 <sup>st</sup> Course Both	1 CY/ 130 SY	162,885 SY	1,253 CY
316	Asphalt (HFRS-2PorCRS-1P)	2 <sup>nd</sup> Course Inside Park	0.52 GAL / SY	131,625 SY	68,445 GAL
316	Aggregate (TY B GR 3)	2 <sup>nd</sup> Course Inside Park	1 CY / 100 SY	131,625 SY	1,317 CY
316	Asphalt (AC-20-5TR)	2 <sup>nd</sup> Course Outside Park	0.52 GAL/ SY	31,260 SY	16,256 GAL
316	Aggregate (TY B GR 3)	2 <sup>nd</sup> Course Outside Park	1 CY/ 100 SY	31,260 SY	313 CY
3146	Hot Mix (Ty. C)(Surf)	2 ¾ "	302.5 LBS / SY	130,598 SY	19,753 TONS

(1) Subgrade &amp; Exst. Matrl. is estimated @ 125 pounds per cubic foot

**BASIS OF ESTIMATE FOR DETOURS**  
FOR CONTRACTOR'S INFORMATION ONLY

ITEM	DESCRIPTION	RATE	AMOUNT	QUANTITY
110	Excavation			5 CY
132	Embankment (OC)(TY B)(CL 3)			8 CY
132	(RAP) Embankment (OC)(TY C)(CL 3)	0.167 CY/SY	763 SY	128 CY

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**Highway:** PR 40

**GENERAL:**

The following State Standards have been modified: RHD-97 & PM(AP)-98.

Contractor shall take note of the existing bridge located on Park Road 40 @ Station 203+50 and shall contact TxDOT regarding the loading capacities of this structure. Any damage caused to the bridge as a result of non-compliance with the loading requirements shall be repaired at the expense of the contractor.

The Contractor shall not be allowed to stay inside the park overnight.

The Contractor shall understand that the plans denote “resource” trees and “marginal” trees in various locations. All “resource” trees shall be saved at all costs and all “marginal” trees shall be attempted to be saved wherever possible.

**ITEM 5 – CONTROL OF WORK**

The Contractor shall relocate or reference the control points that fall in construction areas in order to be able to maintain or re-establish those points.

**ITEM 7 - LEGAL RELATIONS & RESPONSIBILITIES TO THE PUBLIC**

The Contractor shall contact utility and pipeline companies to verify locations of all utilities and pipelines in the area of construction in the event utilities or pipelines are encountered that conflict with the work. They shall be relocated or adjusted by the owner or TPWD.

**ITEM 8 - PROSECUTION AND PROGRESS**

The Work Area for this project is divided into three sections:

1. PR 40 - From SH 75 to the Headquarters Building.
2. PR 40A - From PR 40 to the End.
3. PR 40 - From the Headquarters Building to the End.

Unless otherwise authorized by the Engineer, the Contractor shall complete the work in one section prior to starting on another section. When approved by the Engineer, the Contractor may combine two or more of the construction phases in each section as outlined in the “TCP and Construction Sign Layout” plan sheets. Work on the section between SH 75 and the Headquarters Building shall be completed first.

Unless otherwise authorized by the Engineer, the Contractor shall prosecute the work on this project in accordance with the following suggested Sequence of Work. By noon of each Friday, the Contractor shall provide the Engineer a written outline of the proposed work schedule for the

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following week. This outline shall also list the times and places for proposed traffic control changes.

1. Erect "Project Limit Traffic Control Devices".

Outside the Park: From SH 75 to the Headquarters Building.

1. Establish sediment control devices, windrow existing sod and topsoil in accordance with SW3P and Typical Sections.
2. Erect temporary signing and channelizing devices in accordance with Traffic Control Plans and applicable standards.
3. Prep ROW (Clear and Grub).
4. Remove and relocate signs as needed.
5. Construct the proposed intersection with SH 75 (Sta. 100+00 to 103+00.)
  - a. Construct temporary detour utilizing 6" of compacted RAP material.
  - b. Move traffic onto temporary detours.
  - c. Excavate or fill to proposed top of subgrade in accordance with the Typical Section.
  - d. Place Geogrid base reinforcement.
  - e. Place and compact 12" of Flex Base in minimum 2 lifts in accordance with the Typical Section
  - f. Place one course surface treatment and short term pavement markings (TABS).
  - g. Place second one course surface treatment.
  - h. Obliterate existing roadway connectors.
6. Construct from Sta. 103+00 to Headquarters.
7. Widen Subgrade in accordance with the proposed Typical Section.
8. Scarify and reshape top 10" of existing roadway base material.
9. Construct base course in accordance with proposed Typical Sections.
10. Cement treat base course of existing material.
11. Distribute the topsoil and seed.
12. Place one course surface treatment and short term pavement markings (TABS).
13. Place second course surface treatment.
14. Place permanent pavement markings
15. Clean-up

Inside the Park: From PR 40 to the End and PR 40 from the Headquarters Building to the End.

1. Establish sediment control devices, windrow existing sod and topsoil in accordance with SW3P and Typical Sections.
2. Erect temporary signing and channelizing devices in accordance with Traffic Control Plans and applicable standards.
3. Preparation Right of Way (Clear and Grub).
4. Widen Subgrade as needed in accordance with the proposed Typical Section.

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5. Scarify and reshape top 5 inches (5") of existing roadway base material.
6. Perform excavation. Additional RAP (if needed to maintain 2 way traffic during excavation or embankment activities) will be considered subsidiary to Item 110 or Item 132.
7. Lime treat subgrade material as needed
8. Construct drainage structures.
9. Construct Box Culvert on PR 40A in half sections to allow 1 lane of existing traffic for emergency access.
10. Construct base course in accordance with proposed Typical Sections.
11. Cement treat base course of existing material.
12. Distribute the topsoil and seed.
13. Construct Boat Ramp, curbs, sidewalks and miscellaneous items as needed.
14. Place one course surface treatment.
15. Place second course surface treatment in accordance with proposed Typical Sections.
16. Install permanent signs
17. Place Hot Mix Ty. C (Surf)
18. Place permanent pavement markings
19. Final Clean-up

Phase 6 and Phase 8 - Stage 3 shall be constructed under 2 way traffic in accordance with State Standard TCP sheets (2-1) and (2-2).

Working days estimated for this project includes curing, testing and performance periods. Suspension of time for curing, testing and performance periods will not be granted, except time charges will be suspended for testing and performance periods after final inspection as described in article 5.12 of the standard specifications.

Contractor shall note that park hours are from 7:30 AM to 10:00 PM. The gate to the park will be closed from 10:00 PM to 7:30 AM and the Contractor will not have access to the park. If the Contractor wishes to camp in the park, he/she must pay full price for a campsite.

Contractor shall coordinate with the Park Manager regarding construction activities during two weekends. The first is for the Canoe Rendezvous event held on Columbus Day weekend in October and the other is the Sun Mart Trail Endurance Run in mid-December.

#### **ITEM 100 – PREPARING RIGHT OF WAY**

To minimize environmental impact to the site, the Contractor shall not begin any clearing operations until both the TxDOT Engineer, TPWD project manager, and the Contractor has established, defined, and agreed to the trees and areas of vegetation that should not be removed or disturbed by construction activities.



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The Contractor shall notify the parties involved at least one week ahead of clearing or logging operations.

The limits of Preparation Right of Way are as shown on the plans. More specifically, the parking layouts delineated the limits via proposed contours. The limits on the drawings utilizing plan/profile sheets are delineated by the associated cross section drawings. The limits for the roadway areas outside the park are delineated by typical section.

The Contractor is directed to pay special attention to several areas within the park which are of historical/archeological significance. These areas are indicated on the construction drawings and are approximately located as follows: Parking Area A, Parking Area T, Parking Area V, Parking Area W, and Park Road 40A (with associated pullouts) from Station 43+50 to Station 54+00. The existing soil in these areas may not be disturbed to a depth of greater than 2 inches. Existing trees and/or bollards to be removed in these areas shall be ground down to an elevation, which is flush with existing grade without disturbance to the surrounding soils. The method utilized to accomplish this effort to be coordinated with TxDOT and TPWD.

The Contractor shall place a concrete cap over the ground down bollards or trees as detailed in the plans. Measurement and payment shall be as shown with the detail.

Contractor is to exercise extreme caution in the vicinity of existing drainage structures designated to remain. Many of the drainage structures in this park were constructed by the CCC and are of historic significance. These structures are not to be damaged in any way. In some instances, these structures are designated to be buried; however, the integrity of the structure shall not be compromised in so doing.

In the vicinity of Parking Area 'X' and the lodge, the contractor is instructed to note the existence of low lying rock retaining walls and curbs, also constructed by the CCC and also of historic significance. These facilities are not to be disturbed. Contractor shall sawcut the existing pavement 18 inches from the face of wall/curb and remove the asphalt & base material by hand (or other method suitable to TxDOT & TPWD) in the area within 18 inches of these facilities. Contractor shall replace this material with a concrete band as indicated on the construction drawings.

Contractor shall note the asphalt sidewalk areas adjacent to the lodge building at the end of Park Road 40. The removal of asphalt in these areas is to be considered subsidiary to this item.

Contractor shall notify TxDOT and TPWD a minimum of one week in advance of construction in archeologically sensitive areas, adjacent to CCC facilities or removal of picnic tables, to allow scheduling of the appropriate inspection personnel.

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Removal of trees, existing retaining walls, existing asphalt pavement areas, roadway signs, and other appurtenances necessary to accommodate the construction shall be considered subsidiary to the Preparation of Right of Way Item. Small wooden park signs shall be removed by TPWD.

Existing utilities which may be in conflict with the improvements proposed as a part of this project are to be relocated by others, prior to construction. The Contractor shall, however, note the existence of various utilities throughout the park and promptly notify TxDOT and the park manager if unexpected utilities are encountered during construction.

Hand excavation of existing pavement materials and placement of concrete barrier, adjacent to existing CCC structures, is to be considered subsidiary to this Item.

Contractor shall note the removal of the monument located at the intersection of Park Road 40 and State Hwy 75. The removal of this monument, as well as its disposal at the discretion of TxDOT shall be considered subsidiary to this Item.

Contractor shall note the existing drainage structures located throughout the park which are to be buried in place due to historic structure concerns. This work is to be considered subsidiary to this Item.

Contractor shall note the area on the Prairie Branch side of the park, which is to receive an overlay only. This is a cultural/historic area and the Contractor shall confine his operations to the roadway areas only.

Contractor shall provide tree trimming to the extent that a minimum clearance of 16'- 8" is provided over the roadway surfaces throughout the park. This work is to be considered subsidiary to this Item.

No burning shall be allowed on this project.

#### **ITEM 110 AND 132 - EXCAVATION AND EMBANKMENT**

Earthwork cross-sections for the roadway areas are available, at the Huntsville Area Office located at 580 IH 45 North Huntsville, Texas 77340, for inspection by prospective bidders. These cross-sections are for non-construction purposes only, and it is the responsibility of the prospective bidder to validate the data with appropriate plans, specifications and estimates for this project.

Contractor to insure that construction vehicles utilized in the construction of this project are within the appropriate weight limits for the bridge crossing on PR 40 near park entrance.

Contractor shall note the location of existing utilities depicted on the construction documents and shall exercise caution when working in these areas. These facilities were depicted on the plans

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from the best information available and no guarantee is made regarding the accuracy of this information. The Contractor shall perform his own independent inspection of the site towards ascertaining the location of existing underground utilities and shall coordinate closely with park manager in this regard. Any utilities damaged/adversely impacted by the construction activities associated with this project shall be repaired to the satisfaction of the Engineer and the park manager at the expense of the contractor.

Contractor shall take all necessary precautions to protect all trees, bushes and landscaping (including root systems) from being damaged.

Type C Embankment shall be reclaimed asphaltic pavement (RAP) and will be provided by TxDOT. Contractor shall coordinate with TxDOT regarding location of RAP stockpile, located at the intersection of Bearkat Blvd. and SH 19. Addition of RAP (if needed to maintain 2 way traffic during excavation or embankment activities) will be considered subsidiary to either Item 110 or Item 132. See Item 8 of the General Notes for more information.

**ITEM 112 – SUBGRADE WIDENING**

Superelevation will match the existing cross slope unless otherwise directed by the Engineer.

The Contractor is to exercise caution during subgrade widening operations to avoid damage to shallow cross drainage pipes.

**ITEM 160 - FURNISHING AND PLACING TOPSOIL**

Before construction of the subgrade, four inches (4”) of existing sod and topsoil shall be removed from the limits of the work area (for limits – see Preparation Right of Way). This material shall be placed along the backslope to form a windrow along the right-of-way line (see detail -SW3P summary). Upon completion of the subgrade section, the sod and topsoil may be returned to the subgrade crown or as directed by the Engineer.

**ITEMS 164 & 166 - SEEDING FOR EROSION CONTROL & FERTILIZER**

For Straw or Hay Mulch Seeding: the seed and fertilizer may be mixed together and placed in one operation but the placement of the mulch shall be accomplished by a second operation. Fertilizer is required as specified in the Special Provision to Item 166 and is subsidiary to Item 164.

Green Sprangletop seed shall be used at the rate specified in Table 2 for Clay and Tight soils.

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**ITEM 168 - VEGETATIVE WATERING**

Limits of vegetative watering shall be the same as the limits for “Hay or Straw Seed (Perm)(Rural) (Clay)” seeding.

**ITEM 247 – FLEXIBLE BASE**

Flexible Base shall be placed in equal lifts of 4 to 8 inches in depth unless otherwise approved by the Engineer.

The Type D material shall be crushed limestone produced from oversize quarried aggregate, sized by crushing and produced from a naturally occurring single source. No blending of sources and/or additive materials will be allowed in Type D material.

Cure the finished section until the moisture content is at least 2 percent points below optimum or as directed before applying the next successive course or prime coat.

Flexible Base shall be compacted by “Density Control”

.

**ITEM 260 - LIME TREATMENT FOR MATERIAL USED AS SUBGRADE**

Contractor shall use pulverizing machine.

Existing material shall be uniformly mixed and compacted in lifts.

**ITEM 302 - AGGREGATES FOR SURFACE TREATMENT**

Aggregate used for the surface treatment shall have a minimum surface aggregate classification “B”.

**ITEM 316 - SURFACE TREATMENT**

Contractor shall provide pneumatic tire rollers.

The Contractor may be required to furnish and set string line to insure straight and uniform alignment as directed by the Engineer. The Contractor may use other methods subject to approval of the Engineer.

The asphalt distributor spray bar shall be equipped so that nozzles over the wheel paths of the travelway are capable of a reduction of up to 25%. The nozzles shall be furnished by the Contractor. When directed by the Engineer, the nozzle configuration may be changed from project to project and shall be calibrated according to the test method Tex-922-K.

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Unless authorized by the Engineer, a seven (7) day curing period will be required between the first and second course surface treatments.

Unless authorized by the Engineer, a seven (7) day curing period will be required between the surface treatment and HMA overlay.

### **ITEM 403 – TEMPORARY SPECIAL SHORING**

The Cofferdams located at drainage structure “Y” and the boat ramp shall be constructed and removed under this Item.

### **ITEM 420 – CONCRETE STRUCTURES**

Contractor shall note that the proposed concrete pavement at trailer dumps, dumpster pads, and the concrete band adjacent to CCC walls are to be paid in accordance to this item.

The Concrete cap placed over the stump of trees removed in the archeologically sensitive areas defined under Item 100, and detailed in the plans, shall be paid in accordance with this item.

### **ITEM 432 - RIPRAP**

Locations, dimensions and side slopes of riprap shown on the plans may vary to fit field conditions to the extent determined by the Engineer.

The slopes, ditches and other areas to receive riprap shall be shaped, graded and dressed to conform to the existing slopes. The material used for Riprap (Stone)(Common)(Dry) shall be of the color of Iron Ore or as approved by TPWD.

### **ITEM 450 - RAILING**

Rail (Type T6) shall be attached to the culvert headwall. Details for this attachment are shown on standard sheet T6-CM, “Box Culvert Mounting Details for Type T6 Rail”.

### **ITEM 462 – CONCRETE BOX CULVERTS AND STRUCTURES**

Contractor to place Cofferdam as directed in the plans and dewater excavation area in vicinity of drainage culvert “Y” located at Station 15+86 on PR 40A prior to commencement of construction activities in this area. Payment for the placement and removal of the Cofferdam is paid under Item 403.

Box culverts utilized on this project are to be pre-cast.

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#### **ITEM 466 – HEADWALLS AND WINGWALLS**

Concrete headwalls and wingwalls are to receive pattern and color. The pattern shall be Increte Systems Stone-Crete pattern #90600 (San Luis) or equal as approved by TxDOT and TPWD. Color to be dark tan or brown. Color shall be approved by TxDOT and TPWD via the submittal process.

#### **ITEM 502 -BARRICADES, SIGNS AND TRAFFIC HANDLING**

"Project limit traffic control devices" will be required on this project.

Additional signing and/or barricades shown in the TMUTCD, BC, and TCP standards may be required by the Engineer to ensure the safety of the traveling public.

Construction fencing will be required at all locations to protect pedestrian or bicycle traffic. The construction fencing and fencing supports shall be approved by the Engineer. This material and its placement shall be considered subsidiary to Item 502 "Barricades, Signs, and Traffic Handling".

When conditions warrant, minor or emergency changes to the construction phasing plans may be authorized by the Engineer.

Type III (12 ft) barricades are required for all existing and proposed stockpile areas which will be used for this project. Type III barricades will be placed at each approach to the aggregate stockpile.

The traffic control plan shall be governed by part VI of the TMUTCD, the BC standard sheets, the traffic control standard sheets, and as directed by the Engineer.

Existing roadway signs located between the park headquarters building and State Highway 75, which are impacted by construction, shall be retained on temporary poles and restored upon the completion of construction at the direction of the Engineer and is considered to be subsidiary to this item.

#### **ITEM 504 - FACILITIES FOR FIELD OFFICE AND LABORATORY**

The Contractor will be required to furnish one field office Type C. The site/location proposed by the Contractor for the field office has to be approved by the Engineer.

The field office shall contain all necessary plan layout tables, desks, chairs, shelves, lockers, and filing cabinets required, as directed/approved by the Engineer.

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The field office shall not be required to have piped water or sanitary sewer, but shall contain a portable water cooler.

The field office shall have a storage area for office technical equipment as directed/approved by the Engineer. The storage area shall be a minimum of 200 cubic feet and shall be reasonably secure from forced entry and removal from the office.

The field office parking area shall be of adequate material, shape and size to accommodate six (6) vehicles as approved by the Engineer. The field office and the parking area shall be enclosed with a 6 foot chain link fence approved by the Engineer.

The Contractor will be required to clean the field office and laboratory as needed, but not less than once a week. This will include, but not be limited to, sweeping and mopping floors, and emptying wastebaskets.

The Contractor will be required to provide one (1) phone line and one (1) phone and is to pay all phone related charges for service to the State's field office. The Contractor shall provide to the Engineer a copy of the monthly phone bill, which will be used to monitor phone usage. This will be subsidiary and will not be paid for directly.

The Contractor shall furnish a Type D structure for the asphalt mix control laboratory for the Engineer's exclusive use. In addition to the requirements of Item 504, this structure shall have a minimum height of 8 feet and provide a minimum of 400 square feet of gross floor area for permanently located asphalt plants or 200 square feet for temporary located plants serving one project. The floor area will be partitioned into a minimum of two interconnected rooms, each room furnished with an exterior door and a minimum of two windows. The floor shall have sufficient strength to support the testing equipment and have an impervious covering.

The structure shall be adequately air-conditioned and be furnished with a minimum of one desk, three chairs, one file cabinet, a telephone and one built-in equipment storage cabinet for the storage of nuclear equipment. The cabinet shall be a minimum of 3 feet wide by 2 feet deep by 3 feet high and shall have provisions for locking securely.

The structure shall be provided with a 240-volt electrical entrance service. The service shall consist of a minimum of four 120-volt circuits with 20 amp breakers and no more than two grounded convenience outlets per circuit and provisions for a minimum of two 220 volt ovens with vents to the outside. The structure shall have a minimum of two convenience outlets per wall, and a utility sink with an adequate clean potable supply for testing.

Space heaters for heating the structure are unacceptable. Portable structures shall be support blocked for stability and shall be tied down.

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If asphalt content will be determined utilizing the ignition method, the structure shall provide for the following in lieu of the Item 504 requirements for asphalt content by extraction. The room to contain the ignition oven shall be adequately power ventilated and contain a nema 6-50R (208/240 V, 50 A) outlet within 2.5 feet of the ignition oven location and an independent exhaust outlet to the outside no further than 8 feet from the oven. The surface for the ignition oven location shall be level, sturdy, and fire-proof with at least 6 inches clearance between the furnace and other vertical surfaces.

Location of Contractor Equipment Yard/Staging Area, or Contractors other project specific locations, shall be as approved by TPWD and the Engineer.

**ITEM 529 – CONCRETE CURB**

Concrete curb shall be reinforced with continuous #3 bar.

**ITEM 531 – CONCRETE SIDEWALKS**

Wheel chair ramps constructed in association with this project are to be considered subsidiary to sidewalk construction and shall meet the latest Texas Accessibility Standards/ADA requirements.

**ITEM 666 - REFLECTORIZED PAVEMENT MARKINGS**

Unless authorized by the Engineer, the Contractor will not place the pavement markings on the resurfaced roadway until it has cured for three (3) days.

All striping limits shall be approved by the Engineer before striping operation may begin.

**ITEM 1913 – FLOATING BOAT DOCK**

Contractor to place coffer dam as directed in the plans and dewater excavation area in vicinity of boat ramp and floating boat dock prior to commencement of construction activities in this area. Payment for the placement and removal of the coffer dam is to be paid under Item 403.

All labor, material & equipment needed to construct the floating boat dock, to include but not limited to embankment, riprap, etc, shall be paid for under this item. Limits of pay are shown on the plans.

**ITEM 2027 – PLACING RECLAIMED ASPHALTIC PAVEMENT**

RAP material shall be used as base material for the roadways in the archeologically sensitive areas and in the vicinity of culvert structure “Y” located on PR 40A at Station 15+86 as depicted on the plans. Contractor shall place and compact the RAP material as shown on the plans or as



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directed by the Engineer. Contractor shall coordinate with TxDOT regarding location of RAP stockpile, located at the intersection of Bearkat Blvd. and SH 19.

**ITEM 3146 - QUALITY CONTROL/QUALITY ASSURANCE OF HOT MIX ASPHALT**

One (1.0) percent lime, based on the total aggregate weight, shall be added as a mix enhancer for all mixture types. The lime shall meet the requirements of Item 264, "Lime and Lime Slurry".

Lime shall be added in slurry or dry form. Lime slurry shall be added between the plant cold feed and the dryer during mixture production. When lime is added in dry form, Type A hydrated lime shall be used. Dry lime can be added by one (1) of the following two (2) methods:

- a) Between the plant cold feed and the dryer during production using a suitable pugmill mixer, additional water shall be introduced into the mixer, if necessary, to insure that the aggregate contains at least two (2) percent moisture by weight above the saturated surface dry condition.
- b) In the dryer of a drum-mix plant immediately prior to asphalt addition or in the pugmill of the weigh-batch plant prior to asphalt addition. If a drum-mix plant is used, necessary equipment modifications shall be performed to avoid losing lime in the exhaust air stream. Drum-mix plants can be used only if a bag house dust collection system is in use and all collected dust is metered back into the drum for mixing.

If a weigh-batch plant is used, aggregates and lime shall be dry mixed prior to asphalt addition.

Coarse aggregates to be used in surface courses shall have a minimum surface aggregate classification "B". The surface aggregate classifications for sources on the aggregate quality monitoring program (AQMP) are listed in the rated source quality catalog (RSQC) along with the criteria used to determine surface aggregate classifications.

The asphaltic concrete shall meet the moisture susceptibility testing requirements of minimum tensile strength ratio and tensile strength as specified in Item 301 "Asphalt Anti-stripping Agents".

The asphalt binder used in the manufacture of the hot mix asphalt concrete, under special specification, shall be PG 64-22.

The tack coat shall consist of asphalt cement. It shall be applied through a distributor spray bar in accordance with Article 316.3(1) Distributor.

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The Contractor shall supply and use a material transfer device (MTD) for all asphaltic concrete on the project unless otherwise approved by the Engineer. The Contractor shall use the MTD in such a manner as to eliminate segregation.

**ITEM 3637 – COMPUTER EQUIPMENT**

The Printer shall be a combination printer, scanner, fax, and copier.

**ITEM 5004 - TEMP EROSION, SEDIMENTATION & WATER POL PREV AND CTRL**

The storm water pollution prevention plan (SW3P) for this project shall consist of using the following items as directed by the Engineer. If other erosion control devices or measures are needed, payment for the work will be determined in accordance with article 4.3, "Extra Work".

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| 1) Blading (erosion control)        | 5) Soil retention blanket           |
| 2) Excavator work (erosion control) | 6) Temporary sediment control fence |
| 3) Straw or hay with seed           | 7) Earthwork for erosion control    |
| 4) Rock filter dams                 |                                     |

**ITEM 5010 – CONSTRUCTION EXITS**

“Construction Exits Type 1” will be used temporarily during construction to control the tracking of sediment, mud, gravel, etc. from a construction site or other identified area, to a public right of way, street, sidewalk or parking area. Location to be approved by the Engineer.

**ITEM 5012 - EARTHWORK FOR EROSION CONTROL**

“Blading Work (erosion control)” will be used for shaping ditches for improved drainage. Limits will be determined by the Engineer.

“Excavation work (erosion control)” will be used to maintain miscellaneous erosion control devices and to ensure drainage of structures and ditches, as directed by the Engineer.

**ITEM 5249 – TEMPORARY SEDIMENT CONTROL FENCE**

Unless otherwise approved by the Engineers, bleeders shall be spaced at approximately 200 foot intervals as needed along the berm.

The exact location and limits of SW3P shall be approved by the Engineer prior to installation. Any device that is not properly installed shall be removed and relocated at the Contractor's expense.

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PROJECT : C 2267-1-7  
HIGHWAY : PR 40  
COUNTY : WALKER

TEXAS DEPARTMENT OF TRANSPORTATION

**GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS**

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT  
ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF  
----- TRANSPORTATION MARCH 1, 1993.  
STANDARD SPECIFICATIONS ARE INCORPORATED  
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS  
ITEM 100 PREPARING RIGHT OF WAY (132)  
ITEM 105 REMOVING STABILIZED BASE AND/OR ASPHALTIC PAVEMENT  
ITEM 106 OBLITERATING ABANDONED ROAD  
ITEM 110 EXCAVATION (132) (2027)  
ITEM 112 SUBGRADE WIDENING (132) (204)  
ITEM 132 EMBANKMENT (100) (204) (400) (2027)  
ITEM 150 BLADING  
ITEM 160 FURNISHING AND PLACING TOPSOIL (204)  
ITEM 164 SEEDING FOR EROSION CONTROL (166) (168) (169) (300)  
ITEM 168 VEGETATIVE WATERING  
ITEM 169 SOIL RETENTION BLANKET  
ITEM 247 FLEXIBLE BASE (204)  
ITEM 251 REWORKING BASE MATERIAL (204) (247)  
ITEM 260 LIME TREATMENT FOR MATERIALS USED AS SUBGRADE (ROAD MIXED)  
(132) (204) (264) (300) (520)  
ITEM 275 PORTLAND CEMENT TREATED MATERIALS (ROAD MIXED) (247) (300)  
(421) (520) (524)  
ITEM 316 SURFACE TREATMENTS (213) (300) (302) (520)  
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132) (420) (421)  
ITEM 403 TEMPORARY SPECIAL SHORING  
ITEM 420 CONCRETE STRUCTURES (400) (404) (421) (426) (427) (433) (435)  
(437) (438) (440) (441) (448) (520) (522) (524) (526) (5699)  
ITEM 432 RIPRAP (420) (421) (427) (440) (520) (524) (526)  
ITEM 450 RAILING (441) (442) (445) (446) (448) (5699)  
ITEM 462 CONCRETE BOX CULVERTS AND SEWERS (400) (424) (427) (464)  
(520) (522) (526)  
ITEM 464 REINFORCED CONCRETE PIPE (400)  
ITEM 466 HEADWALLS AND WINGWALLS (400) (420) (421) (427) (440) (464)  
(520) (522) (524) (526)

ITEM 467 SAFETY END TREATMENT (400)(524)  
 ITEM 479 ADJUSTING MANHOLES AND INLETS (400)(465)  
 ITEM 496 REMOVING OLD STRUCTURES (497)  
 ITEM 500 MOBILIZATION  
 ITEM 502 BARRICADES, SIGNS AND TRAFFIC HANDLING  
 ITEM 504 FACILITIES FOR FIELD OFFICE AND LABORATORY (5519)  
 ITEM 508 CONSTRUCTING DETOURS (247)(275)(276)(316)(330)(334)(340)(345)  
 ITEM 529 CONCRETE CURB, GUTTER AND COMBINED CURB AND GUTTER (360)(420)(421)(437)(440)(526)  
 ITEM 531 SIDEWALKS (360)(420)(421)(437)(440)(526)  
 ITEM 540 METAL BEAM GUARD FENCE (421)(442)(445)(492)  
 ITEM 542 REMOVING METAL BEAM GUARD FENCE  
 ITEM 550 CHAIN LINK FENCE (421)(445)  
 ITEM 618 CONDUIT (400)(476)  
 ITEM 636 ALUMINUM SIGNS (TYPE A) (643)  
 ITEM 644 SMALL ROADSIDE SIGN ASSEMBLIES (421)(440)(634)(636)(646)(656)  
 ITEM 649 REMOVING OR RELOCATING ROADSIDE SIGN ASSEMBLIES (445)(634)(636)(637)(643)(646)(647)(656)  
 ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)(660)  
 ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(672)(677)  
 ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (677)(678)  
 ITEM 668 PREFABRICATED PAVEMENT MARKINGS (678)

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE  
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED  
 HEREON WHEREVER IN CONFLICT THEREWITH.

#### SPECIAL LABOR PROVISIONS FOR STATE PROJECTS (000--2381)

##### WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--4025)  
 SPECIAL PROVISION "PARTNERING" (000--2169)  
 SPECIAL PROVISION "SMALL BUSINESS ENTERPRISE IN STATE FUNDED  
 CONSTRUCTION" (000--3863)  
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--4435)  
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--4465)  
 SPECIAL PROVISION TO ITEM 1 (001---182)  
 SPECIAL PROVISION TO ITEM 2 (002---106)  
 SPECIAL PROVISION TO ITEM 3 (003---065)  
 SPECIAL PROVISION TO ITEM 4 (004---014)  
 SPECIAL PROVISION TO ITEM 5 (005---027)  
 SPECIAL PROVISIONS TO ITEM 6 (006---018)(006---021)  
 SPECIAL PROVISIONS TO ITEM 7 (007---158)(007---1059)  
 SPECIAL PROVISIONS TO ITEM 8 (008---128)(008---244)  
 SPECIAL PROVISION TO ITEM 9 (009---062)  
 SPECIAL PROVISION TO ITEM 110 (110---004)  
 SPECIAL PROVISION TO ITEM 164 (164---006)  
 SPECIAL PROVISION TO ITEM 166 (166---003)  
 SPECIAL PROVISION TO ITEM 169 (169---002)  
 SPECIAL PROVISION TO ITEM 213 (213---001)  
 SPECIAL PROVISION TO ITEM 247 (247---017)

SPECIAL PROVISION	TO ITEM	260	(260---001)
SPECIAL PROVISION	TO ITEM	264	(264---001)
SPECIAL PROVISION	TO ITEM	300	(300---081)
SPECIAL PROVISION	TO ITEM	301	(301---002)
SPECIAL PROVISION	TO ITEM	302	(302---019)
SPECIAL PROVISION	TO ITEM	316	(316---004)
SPECIAL PROVISION	TO ITEM	360	(360---052)
SPECIAL PROVISION	TO ITEM	400	(400---016)
SPECIAL PROVISION	TO ITEM	420	(420---015)
SPECIAL PROVISION	TO ITEM	421	(421---028)
SPECIAL PROVISION	TO ITEM	424	(424---006)
SPECIAL PROVISION	TO ITEM	426	(426---005)
SPECIAL PROVISION	TO ITEM	427	(427---002)
SPECIAL PROVISION	TO ITEM	433	(433---003)
SPECIAL PROVISION	TO ITEM	435	(435---001)
SPECIAL PROVISION	TO ITEM	437	(437---001)
SPECIAL PROVISION	TO ITEM	440	(440---005)
SPECIAL PROVISION	TO ITEM	441	(441---008)
SPECIAL PROVISION	TO ITEM	442	(442---018)
SPECIAL PROVISION	TO ITEM	445	(445---001)
SPECIAL PROVISION	TO ITEM	446	(446---008)
SPECIAL PROVISION	TO ITEM	462	(462---007)
SPECIAL PROVISION	TO ITEM	464	(464---003)
SPECIAL PROVISION	TO ITEM	466	(466---007)
SPECIAL PROVISION	TO ITEM	467	(467---009)
SPECIAL PROVISION	TO ITEM	502	(502---027)
SPECIAL PROVISION	TO ITEM	520	(520---001)
SPECIAL PROVISION	TO ITEM	522	(522---002)
SPECIAL PROVISION	TO ITEM	524	(524---007)
SPECIAL PROVISION	TO ITEM	526	(526---003)
SPECIAL PROVISION	TO ITEM	531	(531---018)
SPECIAL PROVISION	TO ITEM	540	(540---033)
SPECIAL PROVISION	TO ITEM	550	(550---001)
SPECIAL PROVISION	TO ITEM	662	(662---007)
SPECIAL PROVISION	TO ITEM	666	(666---043)
SPECIAL PROVISION	TO ITEM	672	(672---012)
SPECIAL PROVISION	TO SPECIAL SPECIFICATION ITEM	3146	(3146--015)
SPECIAL PROVISION	TO SPECIAL SPECIFICATION ITEM	5020	(5020--001)

SPECIAL SPECIFICATIONS:

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ITEM 1042 TREE PROTECTION IN CONSTRUCTION AREAS  
 ITEM 1913 FLOATING DOCK SYSTEM  
 ITEM 1914 VEHICULAR ACCESS CONTROL GATE AND KEYPAD  
 ITEM 2027 PLACING RECLAIMED ASPHALTIC PAVEMENT  
 ITEM 3146 QUALITY CONTROL/QUALITY ASSURANCE OF HOT MIX ASPHALT  
           (300) (301) (520) (5880)  
 ITEM 3637 COMPUTER EQUIPMENT  
 ITEM 3669 INCENTIVE FOR USE OF LOW EMISSION DIESEL IN NONATTAINMENT  
           AND AFFECTED COUNTIES  
 ITEM 4438 FLOWABLE BACKFILL (421) (524)  
 ITEM 5004 TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION

PREVENTION AND CONTROL

ITEM 5005 ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL  
(5004) (5012)

ITEM 5010 CONSTRUCTION EXITS (5004) (5012)

ITEM 5012 EARTHWORK FOR EROSION CONTROL (5004)

ITEM 5020 MODULAR RETAINING WALLS

ITEM 5249 TEMPORARY SEDIMENT CONTROL FENCE (5004)

ITEM 5519 TRANSPORTABLE CELLULAR TELEPHONES

ITEM 5673 PRECAST CONCRETE WHEEL STOPS

ITEM 5699 EPOXY AND ADHESIVES

ITEM 5866 CURB RAMP AND LANDING (360) (420) (421) (437) (440) (526)

ITEM 5880 RIDE QUALITY FOR PAVEMENT SURFACES

ITEM 5977 GEOGRID BASE REINFORCEMENT

ITEM 6670 PORTABLE CHANGEABLE MESSAGE SIGN

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH  
 ----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER  
 PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-  
 LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL  
 PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-  
 CATIONS FOR THIS PROJECT.

**SPECIAL SPECIFICATION**  
**6670**  
**Portable Changeable Message Sign**

**1. Description.**

This Item shall govern for the furnishing of portable trailer mounted changeable message sign (PCMS) unit(s) during roadway construction for the handling of traffic in work areas. The location and operation of these unit(s) for the various stages of construction shall be as indicated under the provisions for traffic handling provided in the contract, as shown on plan details, or as directed by the engineer. The PCMS unit(s) shall remain the property of the contractor upon completion of the contract.

**2. General Requirements.**

Each PCMS unit shall be self-contained and include the following:

- A. Sign controller
- B. Changeable Message Sign (CMS)
- C. Trailer
- D. Power source

All visible exterior surfaces of the trailer, power supply housing, supports and signs shall be federal orange or federal yellow in color, flat or semi-gloss, except for the sign face assembly which shall be flat black in color.

The entire PCMS unit shall not exceed 96 inches in overall width.

**3. Sign Controller.**

Sign controls shall provide for a variation in message on-time. The sign control circuitry shall provide for the permanent storage of a minimum of 15 pre-programmed messages, the text of which shall be as shown on the plans. An external input device, such as a keyboard, shall be provided to allow random programming and storage of 15 additional messages. It shall be possible to alternately show or sequentially flash up to three (3) of the messages in storage.

All sign controller equipment shall be enclosed in a fixture which may be locked to prevent unauthorized manipulation.

**4. Changeable Message Sign.**

The CMS shall be capable of being elevated hydraulically to a height of seven (7) feet from the bottom of the sign to the roadway surface. The sign shall also be capable of being rotated 360 degrees and secured against movement in any position.

The CMS shall display three (3) separate lines of text with seven (7) characters per line minimum. The character height shall be 18 inches minimum.

The messages displayed on the CMS shall be readily legible from a distance of 750 feet in bright sunlight.

The following are descriptions for the types of CMS:

Type I - Reflective Flip Disk Matrix

Type II - Lamp Matrix

**(1) Type I - Reflective Flip Disk Matrix.**

The characters of a Type I CMS shall be formed with electromagnetic reflective disks. The reflective disks shall be high intensity reflective yellow on one side and black on the other.

A Type I CMS shall provide for manual and automatic light sources that turn on when ambient light conditions are less than daytime conditions.

**(2) Type II - Lamp Matrix.**

A Type II CMS shall provide for manual and automatic dimming of messages for nighttime operations.

**5. Trailer.**

A two wheel trailer with square top fenders, four (4) leveling jacks, and class a trailer lights shall be provided to transport the sign and sign components.

The sign assembly and electronics shall be shock mounted to reduce transmission of vibration to those items from the power supply.

**6. Equipment Maintenance.**

The unit(s) provided by the contractor shall be kept in good repairs at all times. The contractor shall expedite any repairs necessitated by malfunction of or damage to the PCMS unit(s).

**7. Measurement.**

PCMS unit(s) will be measured by the calendar day, including Saturday and Sunday, for each portable changeable message sign unit required for the handling of traffic through the work areas on the project. All PCMS units shall be set up on a work area and operational before the calendar day can be considered measurable.

**8. Payment.**



The work performed and materials furnished in accordance with this Item and measured as provided under "measurement" will be paid for at the unit price bid for "portable changeable message sign" of the various types specified. These prices shall be full compensation for the use of the sign unit(s), including labor to set up, relocate and/or remove sign unit(s), replacement parts, fuel, oil, oil filters, software and for incidentals necessary to complete the work.